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10 30 50
CAGGGGACATGAGAGGCACACCGAAGACCCACCTCCTGGCCTTCTCCCTCCTCTGCCTCC
MetArgGlyThrProLysThrHisLeuLeuAlaPheSerLeuLeuCysLeuL
70 90 110
TCTCAAAGGTGCGTACCCAGCTGTGCCGACACCATGTACCTGCCCTGGCCACCTCCCC
euSerLysValArgThrGlnLeuCysProThrProCysThrCysProTrpProProProA
130 150 170
GATGCCCGCTGGGAGTACCCCTGGTGTGGATGGCTGTGGCTGCTGCCGGTATGTGCAC
rgCysProLeuGlyValProLeuValLeuAspGlyCysGlyCysCysArgValCysAlaA
190 210 230
GGCGGCTGGGGGAGCCCTGCGACCAACTCCACGTCTGCGACGCCAGCCAGGGCCTGGTCT
rgArgLeuGlyGluProCysAspGlnLeuHisValCysAspAlaSerGlnGlyLeuValC
250 270 290
GCCAGCCCGGGCAGGACCCGGTGGCCGGGGGCCCTGTGCCTCTTGGCAGAGGACGACA
ysGlnProGlyAlaGlyProGlyGlyArgGlyAlaLeuCysLeuLeuAlaGluAspAspS
310 330 350
GCAGCTGTGAGGTGAACGGCCGCTGTATCGGGAAGGGGAGACCTTCCAGCCCCACTGCA
erSerCysGluValAsnGlyArgLeuTyrArgGluGlyGluThrPheGlnProHisCysS
370 390 410
GCATCCGCTGCCGCTGCGAGGACGGCGGCTTACCTGCGTGCCGCTGTGCAGCGAGGATG
erIleArgCysArgCysGluAspGlyGlyPheThrCysValProLeuCysSerGluAspV
430 450 470
TGCGGCTGCCAGCTGGGACTGCCCCACCCCAGGAGGGTCGAGGTCTGGGCAAGTGCT
alArgLeuProSerTrpAspCysProHisProArgArgValGluValLeuGlyLysCysC
490 510 530
GCCCTGAGTGGGTGTGCGCCAAGGAGGGGGACTGGGGACCCAGCCCCTTCCAGCCCAAG
ysProGluTrpValCysGlyGlnGlyGlyGlyLeuGlyThrGlnProLeuProAlaGlnG
550 570 590
GACCCAGTTTTCTGGCCTTGTCTCTTCCCTGCCCCCTGGTGTCCCCTGCCAGAATGGA
lyProGlnPheSerGlyLeuValSerSerLeuProProGlyValProCysProGluTrpS

FIG. 1A

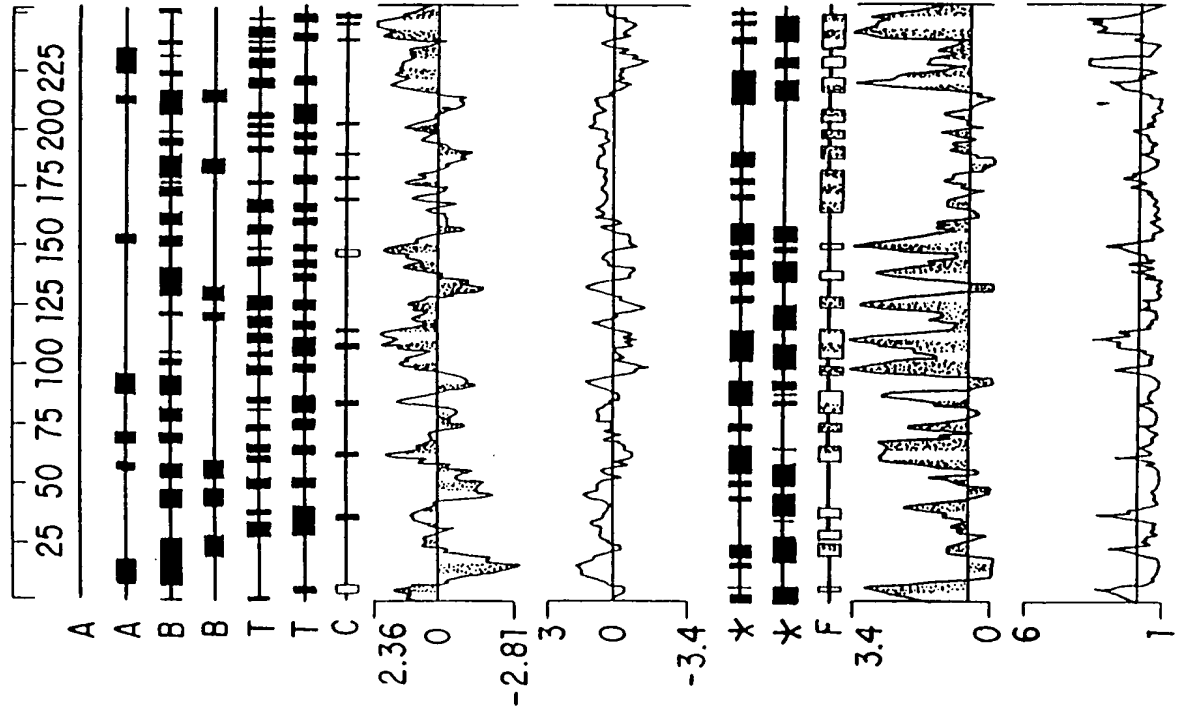
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610 630 650
GCACGGCCTGGGGACCCTGCTCGACCACCTGTGGGCTGGGCATGGCCACCCGGGTGTCCA
erThrAlaTrpGlyProCysSerThrThrCysGlyLeuGlyMetAlaThrArgValSerA
670 690 710
ACCAGAACCGCTTCTGCCGACTGGAGACCCAGCGCCGCTGTGCCTGTCCAGGCCCTGCC
snGlnAsnArgPheCysArgLeuGluThrGlnArgArgLeuCysLeuSerArgProCysP
730 750 770
CACCTCCAGGGTTCGCAGTCCACAAAACAGTGCCTTCTAGAGCCGGGCTGGGAATGGGG
roProSerArgGlyArgSerProGlnAsnSerAlaPheEnd
790 810 830
ACACGGTGTCCACCATCCCCAGCTGGTGGCCCTGTGCCTGGGCCCTGGGCTGATGGAAGA
850 870 890
TGGTCCGTGCCCAGGCCCTTGGCTGCAGGCAACACTTTAGCTTGGGTCCACCATGCAGAA
910 930 950
CACCAATATTAACACGCTGCCTGGTCTGTCTGGATCCCGAGGTATGGCAGAGGTGCAAGA
970 990 1010
CCTAGTCCCCTTTCCTCTAACTCACTGCCTAGGAGGCTGGCCAAGGTGTCCAGGGTCTCT
1030 1050 1070
TAGCCCACTCCCTGCCTACACACACAGCCTATATCAAACATGCACACGGGCGAGCTTTCT
1090 1110 1130
CTCCGACTTCCCCTGGGCAAGAGATGGGACAAGCAGTCCCTTAATATTGAGGCTGCAGCA
1150 1170 1190
GGTGTGGGCTGGACTGGCCATTTTTCTGGGGTAGGATGAAGAGAAGGCACACAGAGAT
1210 1230 1250
TCTGGATCTCCTGCTGCCTTTTCTGGAGTTTGAAAATTGTTCTGAATACAAGCCTATG
1270
CGTGAIAAAAAAAAAAAAAAAAAAAAA

FIG. 1B

	1		50
CTGF-1aa	MTAASMGPVR VAFVLLALC SRPAV.GQNC SGPCRCPDEP APRCPAGVSL		
CTGF-3aaMRGTPK THLLAFSLC LLSKVRTQLC PTPCTCP.WP PPRCPLGVPL		
	51		100
CTGF-1aa	VLDGCGCCRV CAKQLGELCT ERDPCDPHKG LFCDFGSPAN RKIGVC.TAK		
CTGF-3aa	VLDGCGCCRV CARRLGEPD QLHVCDASQG LVCQPGAGPG GRGALCLLAE		
	101		150
CTGF-1aa	DGAPCIFGGT VYRSGESFQS SCKYQCTCLD GAVGCMPLCS MDVRLPSPDC		
CTGF-3aa	DDSSCEVNGR LYREGETFQP HCSIRCRCD GGFTCVPLCS EDVRLPSWDC		
	151		200
CTGF-1aa	PFPRRVKLPG KCCEEWVDE PKDQTVVGA LAAYRLEDTF GPDPTMIRAN		
CTGF-3aa	PHPRRVEVLG KCCPEWVCGQ GGGLGTQPLP AQGPQFGLV SSLPPGVP..		
	201		250
CTGF-1aa	CLVQTTEWSA CSKTCGMGIS TRVTNDNASC RLEKQSRLCM VRPCEADLEE		
CTGF-3aa	CPEWSTAWGP CSTTCGLGMA TRVSNQNRFC RLETQRRCL SRPCPPSRGR		
	251		300
CTGF-1aa	NIKKGKKCIR TPKISKPIKF ELSGCTSMKT YRAKFCGVCT DGRCCPHRT		
CTGF-3aa	SPQNSAF....		
	301		350
CTGF-1aa	TTLPVEFKCP DGEVMKKNMM FIKTCACHYN CPGDNDIFES LYRKMYGDM		
CTGF-3aa		
	351		
CTGF-1aa	A		
CTGF-3aa	.		

FIG.2



- ALPHA, REGIONS - GARNIER-ROBSON
- ALPHA, REGIONS - CHOU-FASMAN
- BETA, REGIONS - GARNIER-ROBSON
- BETA, REGIONS - CHOU-FASMAN
- TURN, REGIONS - GARNIER-ROBSON
- TURN, REGIONS - CHOU-FASMAN
- COIL, REGIONS - GARNIER-ROBSON

□ HYDROPHILICITY PLOT - KYTE-DOOLITTLE

□ HYDROPHOBICITY PLOT - HOPP-WOODS

- ALPHA, AMPHIPATHIC REGIONS - EISENBERG
- BETA, AMPHIPATHIC REGIONS - EISENBERG
- FLEXIBLE REGIONS - KARPLUS-SCHULZ

□ ANTIGENIC INDEX - JAMESON-WOLF

□ SURFACE PROBABILITY PLOT - EMINI

FIG.3

50 75 100 125 150 175 200 225